

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/019679

A. CLASSIFICATION OF SUBJECT MATTER

H04L12/28(2006.01), H04B7/26(2006.01), H04Q7/36(2006.01)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H04L12/28(2006.01), H04B7/26(2006.01), H04Q7/36(2006.01)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2006

Kokai Jitsuyo Shinan Koho 1971-2006 Toroku Jitsuyo Shinan Koho 1994-2006

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2003-258812 A (Sony Corp.), 12 September, 2003 (12.09.03), Par. Nos. [0001] to [0105]	1, 2, 5, 6, 9, 11, 12, 14, 15, 20-23
A	& US 2003/0186713 A1	3, 4, 7, 8, 10, 13, 16-19, 24, 25
A	JP 60-239139 A (Matsushita Electric Industrial Co., Ltd.), 28 November, 1985 (28.11.85), Full text (Family: none)	24

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
19 January, 2006 (19.01.06)Date of mailing of the international search report
31 January, 2006 (31.01.06)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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PCT/JP2005/019679

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2001-217759 A (Matsushita Electric Industrial Co., Ltd.), 10 August, 2001 (10.08.01), Par. No. [0037] (Family: none)	24
A	JP 2004-007652 A (Nokia Corp.), 08 January, 2004 (08.01.04), Par. Nos. [0013] to [0018] & US 2003/0210665 A1 & CA 2427108 A1 & EP 1361769 A1 & KR 3087567 A & CN 1471329 A & BR 301321 A	25

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

The present application does not satisfy the requirement of unity of invention because of the reason given on the extra sheet.

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest
the

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☒ No protest accompanied the payment of additional search fees.

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Continuation of Box No. III of continuation of first sheet (2)

The inventions of claims 1-23 have "a special technical feature" relating to that "the radio terminal device transmits communication profile information including information on the radio communication method, the used frequency band, the communication start time, and communication continuation time to the management terminal device, and the management terminal device compares the acquired communication profile information to the past communication permission history, generates communication permission/non-permission information indicating permission or non-permission of communication based on the communication profile information, and transmits it to the radio terminal device.

The invention of claim 24 has "a special technical feature" relating to a calculation device for calculating the interference degree indicating the interference degree received by the first communication link from the second communication link to which a radio communication method different from the first communication link is applied.

The invention of claim 25 has "a special technical feature" relating to a calculation device for calculating an expected value of throughput in the first communication link by using the interference degree indicating the interference degree received by the first communication link from the second communication link to which a radio communication method different from the first communication link is applied, the standard throughput, and the throughput parameter coefficient.

Here, the invention of claim 24 and the invention of claim 25 have a common matter relating to the interference degree indicating the interference degree received by the first communication link from the second communication link to which a radio communication method different from the first communication link is applied. However, it is a known matter that in radio communication links, each communication has an interference degree. The interference degree cannot be a special technical feature.

There is no technical relationship among those inventions involving one or more of the same or corresponding special technical features. Accordingly, the inventions are not so linked as to form a single general inventive concept.

Consequently, the application is divided into three groups of inventions.